

Operating/Service Instructions

ROTARY MOWER

Model Nos.

**113-890-033, 113-892-033,
113-900-033, & 113-902-033**

IMPORTANT

SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

TRAINING

1. Read the Operating and Service Instruction Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Never allow children to operate a power mower.
3. Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Check the fuel before starting the engine. Do not fill the gasoline tank indoors, when the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine.
4. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine (motor).
5. Never attempt to make a wheel adjustment while the engine (motor) is running.
6. Mow only in daylight or in good artificial light.
7. Never operate the equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk, never run.

OPERATION

1. Do not change the engine governor settings or overspeed the engine.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
3. Stop the blade(s) when crossing gravel drive, walks or roads.
4. After striking a foreign object, stop the engine (motor), remove the wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

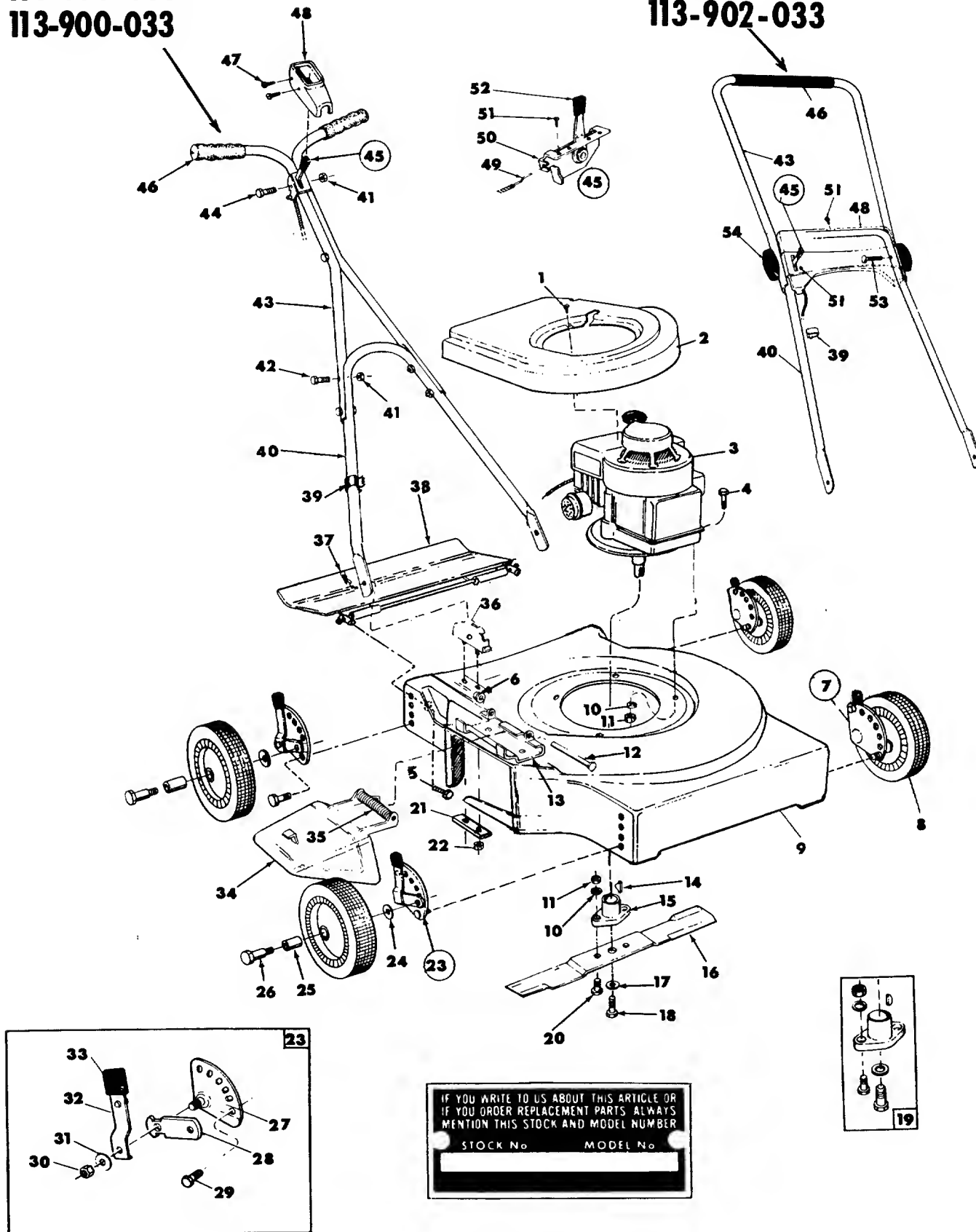
5. If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop the engine (motor) whenever you leave the equipment, before cleaning the mower housing, and when making any repairs or inspections.
7. When cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Shut the engine (motor) off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging chute.
10. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
11. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
12. Never operate mower without proper guards, plates or other safety protective devices in place.
13. Keep washout ports and other mower-housing service openings closed when mowing.

MAINTENANCE AND STORAGE

1. Check the blade and the engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

113-890-033
113-900-033

113-892-033
113-902-033



IF YOU WRITE TO US ABOUT THIS ARTICLE OR
IF YOU ORDER REPLACEMENT PARTS, ALWAYS
MENTION THIS STOCK AND MODEL NUMBER

STOCK No. _____ MODEL No. _____

PARTS LIST FOR MODEL NOS. 113-890-033, 113-892-033, 113-900-033 AND 113-902-033

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	710-407		Slotted Hex Hd. Cap Scr. #8-32 x 1/2" Lg.* (113-892 & 902-033)	
2	10612—462		Shroud (113-892 & 902-033)	
3	—		Engine	
4	710-158		Hex Hd. Cap Scr. 5/16-24 x 1 1/4" Lg.*	
5	710-567		Sems Hex Hd. Cap Scr. 1/4-28 x .62" Lg.	
6	726-106		Push-on Flange Palnut	
7	10950		Height Adjustment Comp.—L.H.	
8	9392—502		Wheel Ass'y. Complete (113-890 & 892-033)	
	9392—501		Wheel Ass'y. Complete (113-900 & 902-033)	
9	11658—460		Deck Ass'y. Complete 20" (113-890-033)	
	11658—462		Deck Ass'y. Complete 20" (113-892-033)	
	11659—460		Deck Ass'y. Complete 22" (113-900-033)	
	11659—462		Deck Ass'y. Complete 22" (113-902-033)	
10	736-119		Spring Lockwasher 5/16" Scr.*	
11	712-123		Hex Nut 5/16-24 Thd.*	
12	711-555		Pivot Pin	
13	11130—460		Adapter Plate (113-890 & 900-033)	
	11130—462		Adapter Plate (113-892 & 902-033)	
14	714-365		#6 Hi-Pro-Key 5/32 x 3/8" Dia.	
15	10769		Blade Adapter Kit	
16	742-123		20" Blade (113-890 & 892-033)	
	742-125		22" Blade (113-900 & 902-033)	
17	736-217		Spring Lockwasher 3/8" Scr. Heavy Duty	
18	710-459		Hex Hd. Cap Scr. 3/8-24 x 1.50" Lg. Heat Treated	
19	10769		Blade Adapter Kit	
20	710-117		Hex Hd. Cap Scr. 5/16-24 x 1.0" Lg. Heat Treated	
21	8405		Reinforcement Plate	
22	712-107		Hex Center Locknut 1/4-20 Thd.	
23	10951		Height Adjustment Comp.—R.H.	
24	736-105		Belleville Washer	
25	7006		Fortiflex Bearing	
26	738-102		Axle Bolt	
27	10934		Index Plate Ass'y.—R.H.	
	10935		Index Plate Assembly—L.H.	
28	10937		Wheel Pivot Bar	
29	710-209		Sems Hex Hd. Cap Scr. 3/8-16 x 5/8" Lg.	
30	712-116		Elastic Locknut 3/8-24 Thd.	
31	736-219		Spring Washer	

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
32	10949		Spring Lever Ass'y. with Knob	
33	7520		Spring Lever—Knob	
34	11141—460		Chute Deflector Ass'y. (113-890 & 900-033)	
	11141—462		Chute Deflector Ass'y. (113-892 & 902-033)	
35	732-253		Torsion Spring	
36	8388		Handle Mtg. Brkt. Ass'y.—R.H.	
	8389		Handle Mtg. Brkt. Ass'y.—L.H. (Not Shown)	
37	714-104		Cotter Pin	
38	11189—460		Rear Protective Shield Ass'y. Comp. (113-890 & 892-033)	N
	11197—462		Rear Protective Shield Ass'y. Comp. (113-900 & 902-033)	N
39	746-128		Cable Clip	
40	9361		Lower Handle (113-890 & 900-033)	
	10970		Lower Handle (113-892 & 902-033)	
41	712-107		Hex Center Locknut 1/4-20 Thd. (113-890 & 900-033)	
42	710-606		Hex Hd. Cap Scr. 1/4-20 x 1.50" Lg.* (113-890 & 900-033)	
43	9354		Upper Handle (2-Req'd.) (113-890 & 900-033)	
	10011		Upper Handle (113-892 & 902-033)	
44	710-606		Hex Hd. Cap Scr. 1/4-20 x 1.50" Lg.* (113-890 & 900-033)	
45	11597		Throttle Control Ass'y. Comp. (113-890 & 900-033)	
	11611		Throttle Control Ass'y. Comp. (113-892 & 902-033)	
46	720-157		Grip (113-890 & 900-033)	N
	718-144		Grip (113-892 & 902-033)	
47	710-148		Self Tap Scr. #8-32 x 5/16" Lg.* (113-890 & 900-033)	
48	11608		Throttle Control Cover (113-890 & 900-033)	
	11606		Handle Panel (113-892 & 902-033)	
49	732-141		Conduit and Wire (113-890 & 900)	
	732-144		Conduit and Wire (113-892 & 902)	
50	11598		Throttle Control Ass'y.	
51	710-148		Self Tap Scr. #8-32 x 5/16" Lg.* (113-892 & 902-033)	
52	7470		Throttle Control Knob	
53	710-405		Curved Hd. Bolt 5/16-24 x 1 1/4" Lg. (113-892 & 902-033)	
54	9966		Hand Knob (113-892 & 902-033)	
	8494		Hub Cap (113-892 & 902-033) Not Shown	

For faster service obtain standard nuts and bolts locally. If these items cannot be obtained locally, order by part number and size as shown on the parts list.

460—Green Flake 462—Red Flake

When ordering parts, if color or finish is important use the appropriate color code shown above (e.g. Green Flake Finish—11658—(460).)

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NOTE: This instruction manual covers various models and all accessories shown do not necessarily apply to your model tiller. The engine is not under warranty by the tiller manufacturer.

If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines-Gasoline."



ASSEMBLY INSTRUCTIONS

HANDLE ASSEMBLY FOR MODELS 113-892 AND 902-033

1. Remove the loose hardware from the assembly pack. You will need a screw driver and a 5/16" wrench, either a socket as shown in figure 1 or an open end wrench.
2. Assemble the lower handle to the handle brackets as shown in figure 2.
3. Secure the handle with cotter hairpins on both sides. See figure 2.
4. Place the handle panel over the lower handle and fasten with the handle panel screw using a 5/16" wrench. See figure 3.
5. Place the upper handle over the lower handle and line up the holes as shown in figure 4.
6. Insert the curved head bolt from the inside and tighten the knob by hand. See figure 4.
7. Place the throttle control in the handle panel and assemble it with the two throttle screws using a screw driver. See figure 5.
8. Use the cable clip to fasten the throttle control wire to the lower handle.

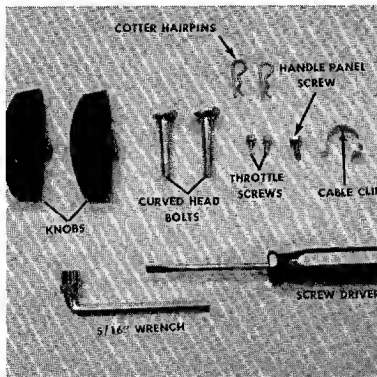


FIGURE 1. LOOSE HARDWARE AND TOOLS

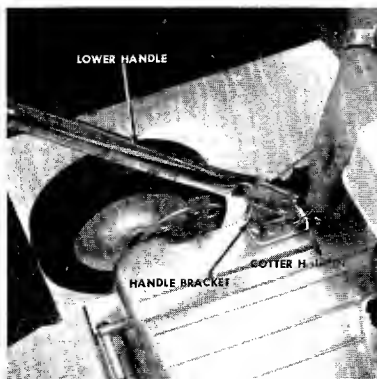


FIGURE 2. LOWER HANDLE ASSEMBLY



FIGURE 3. HANDLE PANEL ASSEMBLY

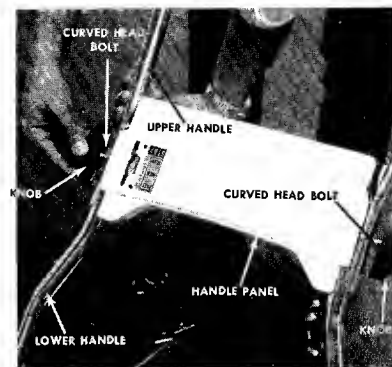


FIGURE 4. UPPER HANDLE ASSEMBLY

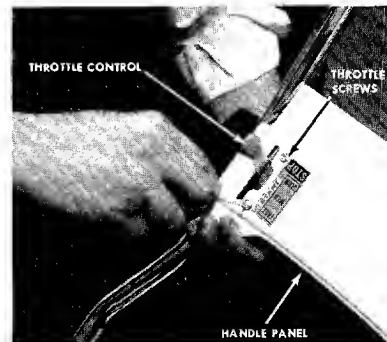


FIGURE 5. THROTTLE CONTROL ASSEMBLY

HANDLE ASSEMBLY FOR MODELS 113-890 AND 900-033

Your new mower is shipped completely assembled with the exception of the handle and throttle control assembly.

1. Remove lawn mower and all parts from carton. Make certain that all loose parts and literature are removed from carton before carton is discarded.
2. Extend throttle control assembly, which is attached to engine, to rear of mower and place on floor.
CAUTION: Do not bend or kink control wire.

3. Assemble upper handle to lower handle using four each screws and lock nuts provided in parts bag.
4. Assemble complete handle assembly to mower so that throttle control mounting hole in upper handle will be on right side. Holes at bottom of lower handle are to be fitted over studs located in front of

each rear wheel mounting position.

5. Position throttle control assembly on right hand side of upper handle so that holes in control assembly and handle are in line. Secure in place with screw and locknut found in parts bag. Secure throttle wire to lower right handle with clips in parts bag.
6. Place the plastic control cover over the throttle control and secure with two self-tapping screws.

OPERATION

1. Service engine with gas and oil. See engine manual packed with lawn mower for complete instructions for the care and maintenance of engine. READ DIRECTIONS CAREFULLY.
2. When ready to start engine, place throttle control lever, on handle, in START position and start engine in accordance with instructions in engine manual. After engine starts, move throttle control lever, on handle, to desired engine speed. The engine is stopped by placing control lever on handle in STOP position.
3. Be sure that lawn is clear of stones, sticks, wire or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.

ADJUSTMENTS

CAUTION—Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

Easy Cutting Height—An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjustment plate has five holes. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress thumb lever towards wheel and move wheel and lever assembly to desired position. Cutting height will be raised as lever is moved toward front and lowered as lever is moved toward rear. All wheels must be positioned in relative height of cut positions.

Throttle—If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

Loosen, but do not remove, screw securing throttle control wire assembly at engine.

2. Move throttle control lever on handle to FAST position.

3. Move lever, to which control wire is fastened at engine, to full open position and retighten screw to secure throttle control wire assembly.

LUBRICATION

IMPORTANT: Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Wheels—Wheel bearings are fortiflex. They require no lubrication.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil (SAE No. 10 or 20) for ease of operation.

Protective Shield—The pivot points on the protective shield should be lubricated periodically with light oil to prevent rust or binding.

Chute Deflector—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.

MAINTENANCE

Cutting Blade—The blade may easily be removed for grinding or replacement as follows:

1. Remove bolt and lockwasher holding blade and blade adapter to engine crankshaft.
2. Remove blade and blade adapter from engine crankshaft.
3. Remove two bolts, lockwashers and nuts holding blade to blade adapter (if necessary).

When sharpening blade, follow the original angle of grind as a guide. It is extremely important that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds and may cause damage to the mower.

Upon reassembly, make certain all parts are assembled properly and tightened securely.

Deck—The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc. is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its left side and scraping with a suitable tool or by washing with a stream of water from a garden hose.

CAUTION: Do not direct the stream of water at a hot engine as damage to the engine may result.

Storage—The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the preceding instructions.
 2. Refer to Engine Manual for correct engine storage instructions.
 3. Coat mower's cutting blade with chassis grease to prevent rusting.
 4. Place blocks under deck to raise tires clear of floor.
 5. Store mower in a dry, clean area.
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USING YOUR ROTARY MOWER

For best results do not cut wet grass because it tends to stick to underside of the mower thus preventing proper discharge of grass clippings. If wet grass must be cut reduce walking speed to help distribute the clippings more effectively.

New grass should be treated as wet grass, otherwise a Normal walking speed is about the right pace for efficient mowing.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion then recut at right angles to first direction.

Lawn should be cut in the fall as long as there is growth.

GRASS CATCHER Model No. 193-003 is available as optional equipment for the mowers shown in this manual.

WARNING:

1. The mower should not be operated without the entire grass catcher or chute deflector in place.
2. The mower should not be operated without the protective shield on the rear of the deck in place.

NOTE:

Under normal usage the bag material is subject to deterioration and wear and should be checked for replacement. Be sure that any replacement bag complies with the original manufacturer's specification.

For replacement bags, use only factory authorized replacement bag No. 764-119.



IMPORTANT

After striking a foreign object, stop the engine (motor), remove wire from spark plug. Thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. **UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.**

PARTS INFORMATION

DEFECTIVE OR MISSING PARTS must be reported to the factory immediately. Such claims must include your model number and date of purchase.

MOWER, TILLER, SNOW THROWER, TRACTOR, TRAIL BIKE AND MUD BUG PARTS

Mower, tiller, snow thrower, tractor, trail bike and mud bug parts are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, de-

scription of parts and the quantity of each part required.

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline*, Briggs & Stratton or Tecumseh Lauson — Power Products.

A 1 Engine & Mower Co.
327 East 9th Street
Salt Lake City, Utah 84102

American Electric Ignition Co.
124 N. W. 8th Street
Oklahoma City, Oklahoma 73102

Auto Electric & Carburetor Co.
2625 4th Avenue, S.
P. O. Box 1948
Birmingham, Alabama 35233

Automotive Equipment Service Co.
3117 Holmes Street
Kansas City, Missouri 64109

Bailey's Rebuild Inc.
1325 E. Madison Street
Seattle, Washington 98102

Brown Equipment Distributor Inc.
110 Beech Street
Corydon, Indiana 47112

Bullard Supply
2409 Commerce Street
Houston, Texas 77003

Catto & Putty, Inc.
P. O. Box 2408
510 Soledad Street
San Antonio, Texas 78205

Center Supply Company
6867 New Hampshire Avenue
Takoma Park, Maryland 20012

Charles B. Wright Co.
309 4th Avenue, South
Nashville, Tennessee 37201

W. B. Clements
400 Salem Avenue
Roanoke, Virginia 24016

Morton B. Collins Co.
300 Birnie Avenue
Springfield, Massachusetts 01107

Dixie Sales Company
P. O. Box 1408
327 Battleground Avenue
Greensboro, North Carolina 27402

East Point Cycle & Key Shop
1617 Whiteway
East Point, Georgia 30044

Gamble Distributors
West End Avenue
Carthage, New York 13619

Garden Equipment Co., Inc.
6600 Cherry Avenue
Long Beach, California 90805

Henzler, Inc.
2015 Lemay Ferry Road
St. Louis, Missouri 63125

Frank E. Ives & Son
1101 Lincoln Avenue
Prospect Park, Pennsylvania 19076

J. W. Jewett Co.
981 Folsom Street
San Francisco, California 94107

Kenton Supply
8216 North Denver Avenue
Portland, Oregon 97217

Kimber's Inc.
115 W. Geddes St.
Syracuse, New York 13204

The Lawnmower Shop
1340 El Camino Real
San Carlos, California 94070

Marr Brothers
423 E. Jefferson
Dallas, Texas 75203

Mathews Auto Electric Co.
420 East 2nd Street
Tulsa Oklahoma 74120

McClure Lawn & Garden Supply
1114 Lexington Avenue
Mansfield, Ohio 44907

Memphis Cycle & Supply Co.
421 Monroe Avenue
Memphis Tennessee 38103

Moz-All of Florida, Inc.
365 Greco Avenue
Coral Gables, Florida 33146

National Central, Div. of
Joe Sterling, Inc.
Drawer "D" 687 Seville Rd.
Wadsworth, Ohio 44281

Power Equipment Distributor
36463 So. Gratiot Avenue
Mt. Clemens, Michigan 48043

Parts & Sales Inc.
2101 Industrial Pkwy.
Elkhart, Indiana 46514

Parts & Sales Inc.
335 West St. Charles Road
Villa Park, Illinois 60181

Power Lawn & Garden Equip. Co.
2551-2571 J. F. Kennedy Road
Dubuque, Iowa 52001

Raub Supply Company
James & Mulberry Sts.
Lancaster, Pennsylvania 17604

Radco Distributors
2403 Market Street
P. O. Box 3216
Jacksonville, Florida 32206

Richmond Battery & Ignition
P. O. Box 25369 — 957 Myers St.
Richmond, Virginia 23260

Smith Hardware Company
515 N. George Street
Goldsboro, North Carolina 27530

South Denver Lawn Equip. Co.
527 West Evans
Denver, Colorado 80223

Suhren Engine
8330 Earhart Blvd.
New Orleans, Louisiana 70118

Sutton's Lawn Mower Shop
Route 4, Box 343
North Little Rock, Arkansas 72117

Warner Equipment
7520 Lyndale Avenue, So.
Minneapolis, Minnesota 55423

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in material and workmanship, defects which are not detected at the time of manufacture.

Our aim is to build into our product quality and reliability. Considerable emphasis is placed on quality control in order to assure our customer of satisfactory product performance. To achieve this goal, it is necessary to gain the cooperation of all concerned, MTD, our sales force and our customers.

MTD's responsibility is to build a quality product and to back up that product. MTD must build this quality product at a competitive price. This cannot be achieved without production in quantity. Quantity production is mass production. In mass production it is always possible for undetected defects to be present when the product reaches the customer. Our warranty is extended to assure the customer that any such defects will be corrected.

Use and maintenance are the responsibility of the customer. MTD cannot assume responsibility for conditions over which it has no control. MTD's responsibility does not cover misuse, excessive use, accident neglect, improper maintenance or alterations by unauthorized persons. Satisfactory product performance can only result when a manufacturer provides and backs up a quality product and the customer follows through with proper use and proper maintenance of that product. When both the manufacturer and the customer recognizes and assumes his responsibility, satisfactory product performance and customer satisfaction are assured.